Sample Questions for



CLASSROOM CONTACT PROGRAMME

PRE-NURTURE & CAREER FOUNDATION: CLASS-IX (FOR VIII to IX MOVING STUDENTS)



ALLEN Corporate Office: "SANKALP" CP-6, Indra Vihar, Kota (Rajasthan) INDIA 324005
Call: +91-744-2757575 | Mail: info@allen.ac.in | Website: www.allen.ac.in



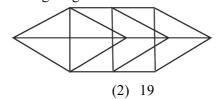
HAVE CONTROL \longrightarrow HAVE PATIENCE \longrightarrow HAVE CONFIDENCE \Rightarrow 100% SUCCESS MENTAL ABILITY

1.	'A + B' means that A is the father of B, 'A - B' means that A is the wife of B; 'A \times B' means that A is the brother of B, 'A \div B' means that A is the mother of B and 'A = B' means that A is the sister of B. On the basis of this information, what does $P \times Q \div R$ means:							
	(1) P is the sister of Q		(2) P is the father of	of R				
	(3) P is the maternal-u	incle of R	(4) P is the nephew	of R				
2.	If A means '-', B mean	ns '+', C means 'x', and I	D means '÷', then 32 Γ	O 4 B 7 C 2 A 6				
	(1) 18	(2) 24	(3) 36	(4) 16				
3.	•	•		alked 20 kms. He then turned r was he from his house?				
	(1) 5 kms	(2) 10 kms	(3) 40 kms	(4) 80 kms				
4.	_			s at odd places in the alphabet ode for the word INDIAN?				
	(1) 2121212	(2) 211211	(3) 122122	(4) 122112				
5.	Insert a missing number	r in place of question ma	ark in the given figure.					
		9 26	25 7 35 39 ? 35 34 24 3 11					
	(1) 28	(2) 36	(3) 81	(4) 49				
6.	and green on the remain	•	e is cut into sixty four s	faces opposite to red surfaces smaller cubes of equal size. (4) 28				
7.	If Atul finds that he is		n a line of boys and fo	ourth from the left, how many				
	(1) 12	(2) 13	(3) 14	(4) 20				
8.	Which of the answer fig	gures is exactly the mirro	or image of the given fi	igure?				

(3)



9. Count the number of triangles in the figure given below.



- (1) 15
- (3) 22

- (4) 24
- 10. In the given letter series, some of the letters are missing, which are given in that order as one of the alternatives below it. Choose the correct alternative.

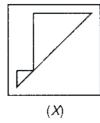
aab _ aa _ bbb _ aaa _ bbb

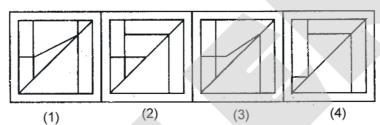
(1) abba

(2) baab

(3) aaab

- (4) abab
- 11. In the given question below, you are given a figure (X) followed by four figures (1), (2), (3) and (4) such that (X) is embedded in one of them. Trace out the correct alternative.





12. In the left hand column are given problem figures and in the right hand column the answer figures. Pick up from the answer figures, one which will continue the series to the problem figures.



- 13. A boy goes to see a film and finds a man who is his relative. The man is the husband of the sister of his mother. How is the man related to the boy?
 - (1) Brother

(2) Nephew

(3) Uncle

- (4) None of these
- **14.** In the given figure, the triangle represents girls, square represents sports-persons and circle represents coaches. Which portion of the figure represents girls who are sports persons but not coaches?



- (1) A
- (2) B
- (3) C
- (4) D

- **15.** Find the next term of the series : 4, 10, 22, 46, ?
 - (1) 56

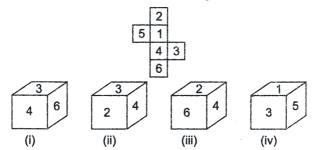
(2) 76

(3) 66

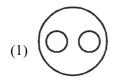
(4) 94



16. Which of the following dice is identical to the unfolded figure as shown below?



- (1) iii
- (2) ii
- (3) i
- (4) iv
- **17.** Find the venn diagram which best illustrates the relationship between-English: novels: Hindi



(2)

 $_{(3)} \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$



- 18. In South-East direction becomes North-West direction. Then what direction south becomes
 - (1) East

(2) North

(3) South West

- (4) West
- **19.** In a certain code, EXPLAINING is written as PXEALNIGNI. How is PRODUCED written in that code?
 - (1) ORPBUDEC

(2) ROPUDECD

(3) ORPDUECD

- (4) ORPUDDEC
- **20.** Choose the alternative which shows the correct water-image of the word.

UP15847

(J) UP15847

(2) Uqr 2847

(3) UP12847

(4) Ndl 28t1



PHYSICS

21.	Which of the following is a non-electrolyte?										
	(1) Salt solution	(2) Lemon juice									
	(3) Distilled water	(4) Tap water									
22.	Which of the following is not a characteristic of image formed by a plane mirror?										
	(1) Size of image = size of object										
	(2) Distance of image from mirror = distance of	object from mirror									
	(3) We cannot obtain the image on the screen										
	(4) Image is formed on the same side as that of o	object									
23.	Which of the following has least magnitude?										
	(1) Kinetic friction) Limiting friction									
	(3) Rolling friction	(4) Sliding friction									
24.	Which of the following is a non-electrolyte?										
	(1) NaOH (2) HCl	(3) CuSO ₄ (4) CCl ₄									
25.	When a medium is set to vibrate it produces:										
	(1) Sound (2) Heat	(3) Electricity (4) Light									
26.	When an object undergoes acceleration:										
	(1) Its speed always remains constant	(2) Its velocity always remains constant									
	(3) Both (1) and (2)	(4) A force always acts on it									
27.	Choose correct statement:										
	(1) A force can change speed of a body										
	(2) A force can change direction of motion of a	body									
	(3) A force can change shape of a body										
	(4) All of these are correct										
28.	9.8 N is equal to :										
	(1) 1 kgf	(2) 1 kgwt									
	(3) Both (1) and (2)	(4) Neither (1) nor (2)									
29.	The shrilness (pitch) of a sound wave depends up										
	(1) Amplitude (2) Frequency	(3) Wavelength (4) Velocity									
30.	Light is in nature.										
	(1) Mechanical	(2) Electromagnetic									
	(3) Transparent fluid	(4) None of these									



31.	A conducting material offers :	
	(1) Very high resistance to passage of electrons	
	(2) Infinite resistance to passage of electrons	
	(3) Very less resistance to passage of electrons	
	(4) None of above	
32.	Speed of light in vacuum is:	
	(1) $3 \times 10^8 \text{m/sec}$. (2) $3 \times 10^7 \text{m/sec}$.	(3) $3 \times 10^5 \text{m/sec}$. (4) $3 \times 10^9 \text{m/sec}$.
33.	Friction can be reduced by:	
	(1) The use of lubricants	(2) The use of ball bearings
	(3) Polishing	(4) All of the above
34.	Which of the following is a contact force ?	
	(1) Frictional force	(2) Magnetic force
	(3) Electric force	(4) Can't say
35.		some particular instants the particles of air come
	closer to one another. These regions of air are cal	illed:
	(1) Crests	
	(2) Troughs	
	(3) Compressions	
26	(4) Rarefactions	
36.	Which of the following is the unit of weight?	(2) O intel
	(1) Kg	(2) Quintal
27	(3) Newton	(4) Ton
37.	Which of the following is false?	
	(1) Friction of air burns meteors	d become that have deep on Con-
	(2) Friction between two surfaces can be reduce	d by polisning the surface
	(3) Friction is always disadvantageous.	
20	(4) None of these	10/-2
38.	A boy of 50 kg mass will be attracted by earth v	with a force of: $(1ake, g = 10 \text{ m/s}^2)$
	(1) 50 N	
	(2) 500 N	
	(3) 5 N	
	(4) 100 N	



39.	The S.I. unit of the frequency of a sound wave is:									
	(1) Metre (2) Second (3) Metre/sec. (4) Hertz									
40.	The process of electrolysis is used in									
	(1) extraction of metals (2) electroplating									
	(3) refining of metals (4) all of the above									
41.	Choose the wrong statement:									
	(1) Light does not need medium to travel									
	(2) Speed of light is same in air, water and glass									
	(3) Light travels in a straight line									
	(4) Speed of light depends upon the nature of medium									
42.	It is difficult to walk on ice because of:									
	(1) Absence of friction									
	(2) Absence of inertia									
	(3) More friction									
	(4) More inertia									
43.	Calculate the resultant force in the given figure :									
	10N ≤ 5N									
	(1) 5 N towards right									
	(2) 5 N towards left									
	(3) Zero									
	(4) 15 N towards right									
44.	The maximum displacement of the medium particle from its equilibrium state during the propagation of a wave is called Its:									
	(1) Wavelength									
	(2) Frequency									
	(3) Amplitude									
	(4) Pitch									
45 .	Light travels in a straight line. This phenomenon is known as:									
	(1) Dispersion									
	(2) Reflection									
	(3) Refraction									
	(4) Rectilinear propagation of light									



CHEMISTRY

46.	Whic	h among the	e foll	owing	is inflammable su	ıbstance	?		
	(1) V	Vood		(2)	Coal	(3)	Petrol	(4)	Charcoal
47.	When	huge amou	ınt of	sewag	ge is dumped into	a river,	the BOD will:		
	(1) I	Decrease				(2)	Increase		
	(3) F	Remain uncl	hange	ed		(4)	None of the above		
48.	Sodiu	m metal ca	n be	stored 1	under :				
	(1) E	Benzene		(2)	Kerosene	(3)	Alcohol	(4)	Water
49.	Choo	se the corre	ct op	tion:					
	(i)	Rayon	(p)	Terryo	cot Fabric				
	(ii)	Nylon	(q)	Artific	cial silk				
	(iii)	Polyester	(r)	Ball b	earing/Machine p	arts			
	(1) (i)-q, (ii)-p,	(iii)-r			(2)	(i)-q, (ii)-r, (iii)-p		
	(3) (i)-p, (ii)-r, (iii)-q			(4)	None of these		
50.	The v	world enviro	nme	nt day i	s celebrated on:				
	(1) 7	th August		(2)	5 th June	(3)	10 th April	(4)	28 th Feb.
51.	Whic	h one of the	follo	owing i	s the least dense	:			
	(1) S	Silver		(2)	Gold	(3)	Copper	(4)	Aluminium
52.	Thern	nosetting pl	astic	is					
	(1) E	Bakelite		(2)	PVC	(3)	Polyethene	(4)	Both (1) and (2)
53.	Silico	n is an exai	mple	of:-					
	(1) N	Metal		(2)	Non-metal	(3)	Metalloid	(4)	None of these
54.	Plasti	cs are gener	rally		resistant :				
	(1) H	Heat				(2)	Decay		
	(3)	Corrosion				(4)	Both (2) and (3)		
55.	One o	of the first n	nan-n	nade fil	bre is:				
	(1) F	Rayon		(2)	Nylon	(3)	Polyester	(4)	None of these
56.	Metal	which can	be cu	ıt with	a knife:				
	(1) (Copper		(2)	Sodium	(3)	Iron	(4)	Aluminium
57.		term is use heating	ed to	descri	be plastic materia	als whic	h can be given a n	ew s	hape by softening on
	_	Thermoplast	cic	(2)	Thermosetting	(3)	Both (1) and (2)	(4)	None of these



Jð.	what is COD:		
	(1) Chemical oxygen deficiency	(2) Chemical oxygen demand	
	(3) Chemical ozone demand	(4) Chemical oxygen difference	
59.	The full form of PET is :-		
	(1) Polyethyne Terephthol	(2) Polyethylene Terephthalate	
	(3) Polyethene Terephthal	(4) Polyethyne Terepthol	
60.	Which of the following is regarded as the best ve	rariety of coal ?	
	(1) Bituminous (2) Lignite	(3) Anthracite (4) Peat	
61.	Which of the following nutrients cause eutrophic	cation of fresh water lakes?	
	(1) Phosphorus	(2) Calcium	
	(3) Sulphur	(4) None of these	
62.	To become stable, metals:		
	(1) Lose or gain electrons	(2) Neither lose nor gain electrons	
	(3) Lose electrons	(4) Gain electrons	
63.	Polycot is:		
	(1) Natural fibre (2) Blended fibre	(3) Synthetic fibre (4) Not a fibre	
64.	Full form of DDT:		
	(1) Dichloro diphenyl trichloroethene	(2) Dichloro diphenyl trichloroethane	
	(3) Dichloro diphenyl trichloroethyne	(4) None of these	
65.	Petroleum is natural resource.		
	(1) Inexhaustible (2) Exhaustible	(3) Both (1) and (2) (4) None of the	se
66.	Which of these is a water-borne disease:		
	(1) Cholera	(2) Amoebic dysentery	
	(3) Typhoid	(4) All of the above	
67.	The following metal reacts with dilute HCl to lib	berate hydrogen gas :	
	(1) Copper (2) Silver	(3) Gold (4) Zinc	
68.	4-R principle is used for		
	(1) Environment (2) Industry	(3) Oceans (4) Space	
69.	Which of these is a method of waste disposal:		
	(1) Landfills	(2) Recycling of wastes	
	(3) Incineration	(4) All of these	
70.	Which of the following is considered to be the fo		
	(1) Petrol	(2) Coal	
	(3) Hydrogen	(4) None of these	



BIOLOGY

71.	71. The jelly like substance present between the nucleus and cell membrane is called—								
	(1) Protoplasm (2) Cytoplasm	(3) Nucleoplasm (4) Nucleolus							
72.	The bacterium which helps in the formation of	of curd is-							
	(1) Lactobacillus	(2) Rhizobium							
	(3) Azotobacter	(4) None of these							
73.	The stage when the reproductive organs reach	ch sexual maturity is called-							
	(1) Puberty (2) Menstruation	(3) Gestation (4) Fertilization							
74.	The outer most layer of onion cell is-								
	(1) Cell wall	(2) Cell membrane							
	(3) Nuclear membrane	(4) None of these							
75.	Which of the following organism reproduces	s through binary fission?							
	(1) Hydra (2) sperm	(3) Amoeba (4) Frog							
76.	Which of the following is not a rabi crop?								
	(1) Wheat (2) Gram	(3) Soyabean (4) Pea							
77.	Who discovered the vaccine for small pox? (1) Louis Pasteur	(2) Alexander Fleming							
	(3) Edward Jenner	(4) Robert Hooke							
70									
78.	The process of changing of tadpole into an ad (1) Fertilization	(2) Metamorphosis							
	(3) Budding	(4) Cloning							
79.	Thread like structures present inside the nucle								
	(1) Fibres (2) Chromosomes								
80.	Which of the following is not a part of the fer	emale reproductive system?							
	(1) Ovary (2) Fallopian tube	(3) Testis (4) Uterus							
81.	Yellow vein mosaic of bhindi (okra) is caused	ed by-							
	(1) Bacteria (2) Fungi	(3) Virus (4) Protozoa							
82.	The large scale storage of food grains are don	one in-							
	(1) Jute bags and metallic bins	(2) Silos and granaries							
	(3) metallic bins and silos	(4) Granaries and jute bags							
83.	In a frog the process of metamorphosis is regu	gulated by-							
	(1) Insulin	(2) Testosterone							
	(3) Growth hormone	(4) Thyroxine							



10/13

84.	Disease causing microo	organisms are called—										
	(1) Pathogens	(2) Antibodies	(3) Carriers	(4) None of these								
85.	Green coloured plastids	s are called–										
	(1) Leucoplast	(2) Amyloplast	(3) Chloroplast	(4) Tonoplast								
86.	Sodium benzoate is an	example of–										
	(1) Antibiotic	(2) Preservative	(3) Fertilizer	(4) Weedicide								
87.	Which of the following	constitutes the right mea	l for adolescents?									
	(1) Chips, noodles, col	ke										
	(2) Chapatti, dal, vege	tables										
	(3) Rice, noodles and	burger										
	(4) Vegetable cutlets,	chips and lemon drink										
88.	Which one of the following organism is not an example of eukaryotic cell?											
	(1) Amoeba		(2) Blue green algae									
	(3) Paramecium		(4) Mango plant									
89.	Which of the following	is/are example(s) of vivi	parous animal?									
	(1) Hen		(2) Cat									
	(3) Lizard		(4) Both (2) and (3)									
90.	The process of loosening	ng and turning of the soil	is called–									
	(1) harvesting		(2) Threshing									
	(3) Tilling		(4) None of these									
91.	Which of the following	is a nitrogen fixing bacte	erium?									
	(1) Lactobacillus	(2) Rhizobium	(3) Yeast	(4) Acetobacter								
92.	Which of the following	is not an endocrine gland	1?									
	(1) Adrenal	(2) Thyroid	(3) Pituitary	(4) Sweat gland								
93.	Irregular shaped cell/s i	s/are:										
	(1) RBC		(2) WBC									
	(3) Amoeba		(4) Both (2) and (3)									
94.	Which of following is i	nvolved in sexual reprodu	uction?									
	(1) Vegetative propaga	ation	(2) Fertilization									
	(3) Binary fission		(4) Multiple fission									
95.	Malaria disease is cause											
	(1) Paramecium	(2) Plasmodium	(3) Amoeba	(4) Leishmania								



MATHEMATICS

- 96. If x = 1, y = -1 and z = -1, then the value of $\frac{x^2yz^2}{3}$ is:
- $(2) \frac{1}{3}$
- (3) 1
- (4) 1
- If $12\frac{1}{2}$ m of rope is to be divided into $1\frac{1}{4}$ m pieces, how many pieces will be there:
- (2) 10
- (3) 8

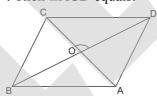
- 98. The average marks obtained by 40 candidates in a certain examination is 50. Find the total marks.
- (2) 2000
- (3) 2200
- (4) 2500

- 99. Value of $\left(\frac{4}{3}\right)^{-3}$ in positive exponent form is:
 - (1) $\left(\frac{3}{2}\right)^3$
- $(2) \quad \left(\frac{3}{8}\right)^3 \qquad \qquad (3) \quad \left(\frac{3}{4}\right)^2$

100. Find the value of A.

$$\begin{array}{c} 6 & A \\ If \underline{+3B} \text{ and } A > B. \\ \underline{1C7} \end{array}$$

- (1) 8
- (2) 7
- (3) 6
- (4) 9
- **101.** ABCD is a rhombus with $\angle ABC=56^{\circ}$. Then $\angle ACD$ equals.



- $(1) 28^{\circ}$
- $(2) 56^{\circ}$
- (3) 62°
- $(4) 68^{\circ}$
- 102. Factors of $x^2 + ax + b$ are (x 7) and (x + 9) then the value of a and b is :
 - (1) a = 2, b = -63

(2) a = -2, b = 63

(3) a = -2, b = -63

- (4) a = 2, b = 63
- 103. The smallest number by which 396 must be multiplied so that the product becomes a perfect square is
 - (1) 5
- (2) 11
- (3) 3
- (4) 2

- **104.** Solve for x, if $\frac{2x+1}{3x+2} = 1$

- (3) -1
- (4) -2

- **105.** The value of $(1^2 + 1^3 + 1^4 + 1^5 + 1^6)$ is :
- (2) 11111
- (3) 1111
- (4) 5

- **106.** How many edges does a cuboid have.
 - (1) 6
- (2) 8
- (3) 12
- (4) 16



107. The product of two rational numbers is $\frac{-8}{9}$. If one of the number is $\frac{-4}{15}$, then the	the other is:
---	---------------

(1) $\frac{32}{135}$

(2) $\frac{10}{3}$

(3) $\frac{3}{10}$

(4) None of these

108. If a number is doubled then how many times it's cube will be:

(1) 5 times

(2) 6 times

(3) 7 times

(4) 8 times

109. Simplify and express as a rational number $\left(\frac{1}{2}\right)^3 \times \left(\frac{-3}{5}\right)^2 \times \left(-\frac{4}{9}\right)^2$:

(1) $\frac{4}{225}$

(2) $\frac{2}{675}$

(3) $\frac{4}{675}$

(4) $\frac{2}{225}$

110. The perimeter of a rhombus is 160 cm and one diagonal is 10 cm long, then the length of the other diagonal is

(1) $\sqrt{10} \text{ cm}$

(2) $\sqrt{37}$ cm

(3) $30\sqrt{7}$ cm

(4) $\sqrt{41}$ cm

111. The factors of $\frac{x^2}{4} - \frac{y^2}{9}$ are :

 $(1) \ \left(\frac{x}{9} + \frac{y}{9}\right), \left(\frac{x}{4} - \frac{y}{9}\right)$

(2) $\left(\frac{x}{2} + \frac{y}{9}\right), \left(\frac{x}{2} - \frac{y}{9}\right)$

(3) $\left(\frac{x}{2} + \frac{y}{3}\right), \left(\frac{x}{2} - \frac{y}{3}\right)$

(4) None of these

112. Which of the following is rational?

(1) $\sqrt{3}$

(2) π

(3) $\frac{4}{0}$

(4) $\frac{0}{4}$

113. Following marks were obtained by 12 students in a mathematics test:

21, 20, 25, 5, 10, 15, 30, 12, 7, 16, 9, 22

The range of the marks is:

(1) 20

(2) 25

(3) 21

(4) 7

114. $x^{3/2} = 8$, then x is equal to :

(1) 2

(2) 4

(3) 16

(4) 8



1	1	_	1171-04:0	41 1	1 af	7 in 8735:
1	. 1	J.	w nat is	me brace	value of	/ III 0 / 3 3 .

(1) 7

(2) 700

(3) both 1 and 2

(4) None of these

116. Which of the following is true:

- (1) Any three line segments make up a triangle.
- (2) The interior of a triangle includes its vertices
- (3) An equilateral triangle is isosceles also
- (4) No isosceles triangle is obtuse

117. Which of the following is a two dimensional figure?

- (1) Rectangular prism
- (2) Rectangle
- (3) Square prism
- (4) Square pyramid

118. To make 432 a perfect square. It should be multiplied by

- (1) 2
- (2) 3
- (3) 4
- (4) 5

119. Solve:
$$3(x-1) = 2x - 11$$
.

- (1) -8
- (2) 8
- (3) -10
- (4) 10

120. The expression $x^{a (b-c)}$. $x^{b (c-a)}$. $x^{c(a-b)}$ simplifies to :

- (1) -1
- (2) 0
- (3) 1
- (4) 2



ASAT : CLASS-IX SAMPLE TEST PAPER

ANSWER KEY

Q.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Α.	3	4	2	4	1	3	2	4	4	2	4	3	3	2	4	3	2	2	4	1
	_	-		-	25	-			-				-			-	_	_		-
Q.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
A.	3	4	3	4	1	4	4	3	2	2	3	1	4	1	3	3	3	2	4	4
Q.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
A.	2	1	1	3	4	3	2	2	2	2	4	1	3	4	2	2	1	2	2	3
Q.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
A.	1	3	2	2	2	4	4	1	4	3	2	1	1	1	3	3	3	2	2	3
Q.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
A.	3	2	4	1	3	2	2	2	2	3	2	4	4	2	2	2	2	2	4	4
Q.	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
A.	3	1	2	3	4	3	2	4	4	3	3	4	2	2	2	3	2	2	1	3